



ADDENDUM #2
ITB/RFP NUMBER: 2022013-PW-B
Mountain View Drive Stream Restoration ITB

DATE: January 7, 2022

TO: All Potential Bidders/Offerors

City of Harrisonburg’s ITB, is modified as follows:

1. Question: We would like to ask if due date for Bid can be extended (7 days) from January 12th to January 19th?

Answer: **The City will extend the bid due date to January 19, 2022 at 3:00 PM local time.**

2. Question: Page 6 of project manual indicates that completion date will be December 31, 2022. Please verify if this date includes plantings. Due to future availability of particular plants; substitutions may have to be made and those plants may require a planting date outside of December 31, 2022.

Answer: Yes, the December 31, 2022 completion date includes the installation of all plantings. All substitutions, and their schedule for installation, would need to be approved by the City and the Project Engineer.

3. Question: Note 5 on Riffle detail on Sheet 9 dated 09/01/21 state that “Riffle mix shall be a minimum thickness of twice the specified D50 of the material or 2’, whichever is larger.” Riffle gradation table on sheet 11 dated 09/01/21 indicates % Fines and size(IN) of material for reach 1 and 2. Please verify if the size of material on table is the actual D50 dimension or the D50 dimension already multiplied by 2. If possible please provide D50 of material for Reach 1 and Reach 2.

RIFFLE GRADATION TABLE		
LOCATION	REACH 1 (UPSTREAM OF EASTOVER)	REACH 2 (DOWNSTREAM OF EASTOVER)
CUMULATIVE % FINER	SIZE (IN)	SIZE (IN)
16	2.0	2.0
30	3.5	5.0
50	12.0	18.0
84	16.0	24.0
95	17.5	26.0

REVIS
PROJECT MANAGER: JRR
DESIGNED: WKM/CKA
DRAWN: JAT/CKA
PROJECT #: 18-0022
DATE: 09/01/21
SHEET:
11

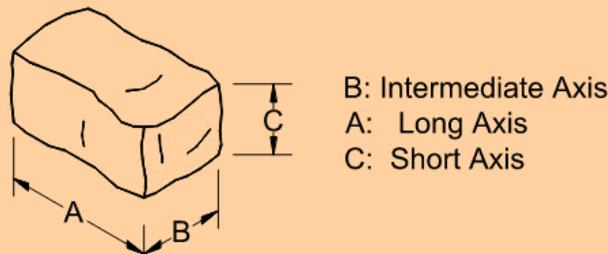
Answer: The D50 size of the riffle material is specified in the “CUMULATIVE % FINER” “50” row and is 12” and 18” for reach 1 and 2 respectively. The riffle thickness identified on sheet 9 refers to the depth of riffle material placed and not the size of the material.

4. Question: Cascade detail on sheet 10 dated 09/01/21 indicates boulders to be more angular in shape than typical imbricated structures. Please verify if it acceptable to use VDOT Class II or VDOT Class III rip-rap for use in the boulder cascade.

Answer: VDOT Class II or Class III will be acceptable if it meets the size and specifications provided on the plans and technical specifications manual.

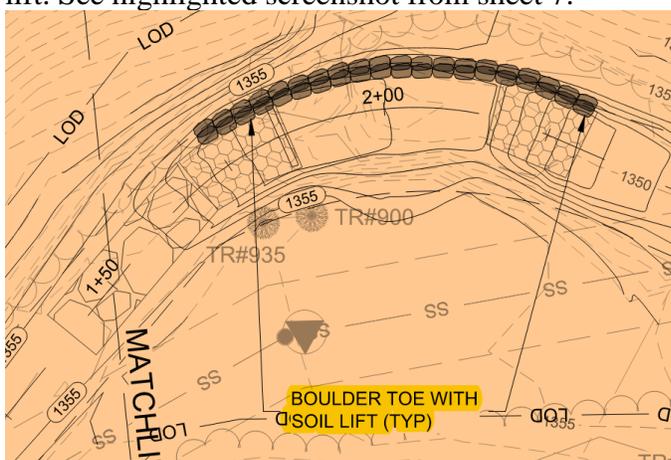
5. Question: For cascade detail on sheet 10 dated 09/01/21 please verify if boulder dimension table on sheet 11 dated 09/01/21 is applicable to boulders required for cascade detail.

BOULDER DIMENSIONS (FT)			
BOULDER TYPE	A-AXIS	B-AXIS	C-AXIS
REACH 1 (UPSTREAM OF EASTOVER)	3.0	2.0	1.0
REACH 2 (DOWNSTREAM OF EASTOVER)	3.5	3.0	1.5



Answer: Yes, boulders for the Cascade (C) structure must conform to the boulder dimensions provided on sheet 11.

6. Question: Please verify note “Boulder Toe With Soil Lift (TYP)” on sheet 7 dated 9/01/21. Legend on sheet 2 dated 9/01/21 indicates structure in question is imbricated wall. Please verify if this structure is imbricated wall or boulder toe with soil lift. Please also verify if only this particular structure needs soil lift. See highlighted screenshot from sheet 7.



Answer: The area identified with note “Boulder Toe With Soil Lift (TYP)” is to follow the detail on sheet 12 for the “Boulder Toe with Soil Lift” and associated specifications.

7. Question: On sheet 13 dated 09/01/21 please provide detail for IC-2. Sheet has 2 details for MH-1.

Answer: See attached IC-2 detail.

8. Question: What is the construction timeline? Is there a hard deadline for completion?

Answer: Yes, the completion date is December 31, 2022.

9. Question: Will utilities be marked or is that up to the contractor?

Answer: The contractor will be responsible for getting the utilities marked.

10. Question: Are all materials to be provided by the contractor? Does the City have any stockpiles to be utilized for logs, root wads, topsoil, rock, etc.? If so, where are they located?

Answer: All materials shall be provided by the contractor. The City does not have stockpiles for use for this project.

11. Question: The plans call for topsoil to be brought in. Is there an estimated quantity of topsoil that will be needed?

Answer: The bid form estimates 530 cubic yards of topsoil.

12. Question: Is the contractor responsible for damage to curb, sidewalk, grass, etc at construction accesses?

Answer: Yes. If the contractor causes any damages to city or private property they will be responsible for correcting it. Please see General Note 14 on Sheet 1 of the Construction Plans and Special Provision 3 of the Technical Specifications.

13. Question: Sheet 6 calls for coordinating with the gas company regarding the gas line. Is it the engineer’s opinion that this will need to be relocated for construction or simply worked around?

Answer: Relocation is not anticipated.

14. Question: Sheet 7 notes utility duct bank work from approximate station 6+75 to 7+90, is this coordination and work under the responsibility of the contractor? The duct bank detail notes design by Gay and Neel, is this design available to the contractor and will we be responsible for coordinating with Gay and Neel for this work? Do any utilities need to be repaired before the duct bank work can commence? Are there specific requirements for the flowable fill to be used in the duct bank?

Answer: Duct Bank installation is the responsibility of the contractor. All design and specifications for this work have been provided in the Plans and Technical Specifications. The engineer has no knowledge of the need for any utility repair prior to commencing this work. See Special Provision 24 for all specifications and requirements.

15. Question: Sheet 8 states that roof drain modifications are to be coordinated with the engineer. What does this entail? Is there a detail for this work?

Answer: There is no detail for this work. Downspouts that currently discharge from the streambank will require length and elevation field adjustments. Work will generally consist of cutting and re-orienting downspouts.

16. Question: Sheet 8 states that CCTV of pipes will need to be performed when grading work is done within proximity of utility lines. Is this performed by Harrisonburg Department of Utilities or by the contractor and at who's expense? Is there an estimate of how many locations will need to be CCTV inspected?

Answer: The City will provide the CCTV work for this project. The contractor is required to provide a minimum of three (3) weeks' notice to the City Project Manager to allow for this work to be scheduled and performed. At the time of notification, the contractor shall identify all areas within the project site that will be in close proximity to the sewer line so that the CCTV activity can be accomplished with one (1) mobilization by City forces.

17. Question: Are there specific requirements for riffle material and boulder material, i.e. natural stone, bluestone from local quarry that meets the detail dimensions? Has any rock been procured yet or discussion with local quarries regarding availability?

Answer: See Technical Specifications Manual for material requirements. As identified in the plans, onsite rock that meets the specifications may be used. Contractor is responsible for procurement and confirmation of availability of all materials.

18. Question: During our site visit, it appears there are chunks of old concrete within the channel. Will these be required to be removed and disposed of off-site?

Answer: All material that cannot be reused/incorporated into the design/implementation must be removed and disposed of at an approved facility.

19. Question: We've experienced issues lately acquiring storm pipes. If the culvert pipe/manhole is delayed can that portion of the project be completed after all stream work?

Answer: The sequence of construction should generally follow as outlined on Sheet 15. Changes to the sequence will need to be submitted and approved by the City and Project Engineer. In general, completion of the storm pipe work could be completed after stream work; however, any impacts to the stream work or planting would need to be repaired prior to final completion.

20. Question: Will safety fence or any barrier be required where work is being done in proximity to residential units, i.e. the backyards of townhomes/apartments?

Answer: Yes.

21. Question: Can any area within the LOD be utilized as stockpile area or only the specific areas shown on the erosion and sediment control sheets?

Answer: Additional or changes to the staging/stockpile areas will need to be coordinated with and approved by the City and the Project Engineer.

22. Question: Hardwood mat and mulch access road detail calls for hardwood over mulch. Will timber mats be required for this at the discrepancy of the on-site inspector?

Answer: Yes, mats are required dependent upon site conditions and construction equipment utilized.

23. Question: There are 3 designated stream crossings on Sheet 15; however, the line item 'Temporary Stream Crossing' is only for 2 EA. Please clarify how the third crossing will be paid.

Answer: The bid sheet has been revised to include three (3) temporary stream crossings.

24. Question: The crossing on Sheet 15 in Phase 2 STA ~1+25 is not specified. Is this to be a temporary culvert crossing or a temporary bridge crossing?

Answer: This crossing is anticipated to be a temporary bridge crossing.

25. Question: Please confirm all access roads are to be mulch only and not 3-ply mats.

Answer: See response to question 22.

26. Question: Is geotechnical testing required for the compaction of fill material?

Answer: No.

27. Question: Is a boulder crest required at the end of each riffle, per the detail on sheet 9? Or only where specifically called out on the plan view?

Answer: The Boulder Crest is required at the end of all riffles that do not have an alternative structure identified (e.g., cross vane, j-hook, etc.).

28. Question: What material should be used as the channel substrate in pools?

Answer: As shown in the Riffle detail, riffle mix is to extend to the maximum depth of the pools and then to begin again at the glide (i.e., upslope to the top of riffle). However, the bottom of the pool may be natural substrate.

29. Question: Item 11 'Riffle' is a quantity of 19; however, I'm only counting 18 riffles on the plans/profile. Can you please provide stationing for all the riffles to confirm the quantity is correct.

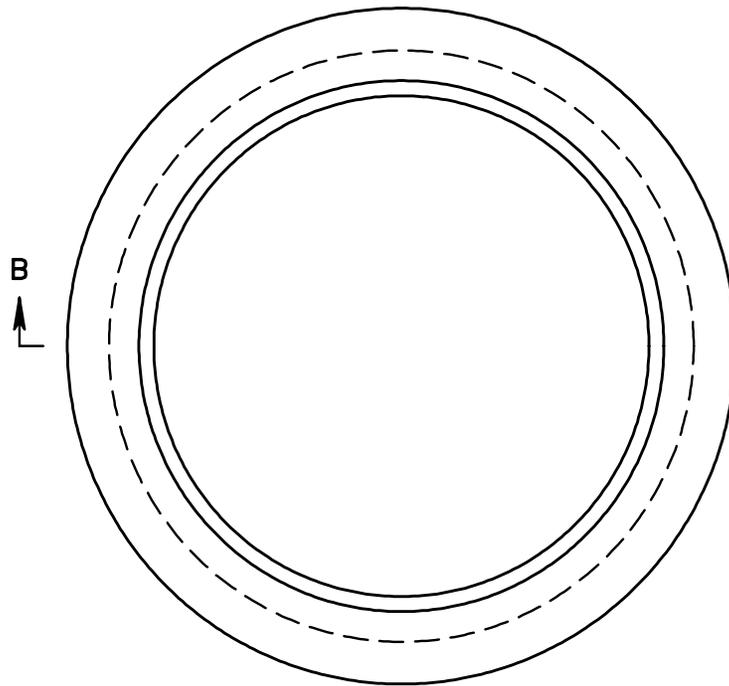
Answer: There are a total of 19 riffles. 18 riffles are on the main stem of the project, and one riffle is to be constructed on the tributary located at approximately STA 2+30. All riffles are identified using the hatch shown on sheet 2.

All other requirements, terms and conditions of the ITB/RFP remain unchanged.

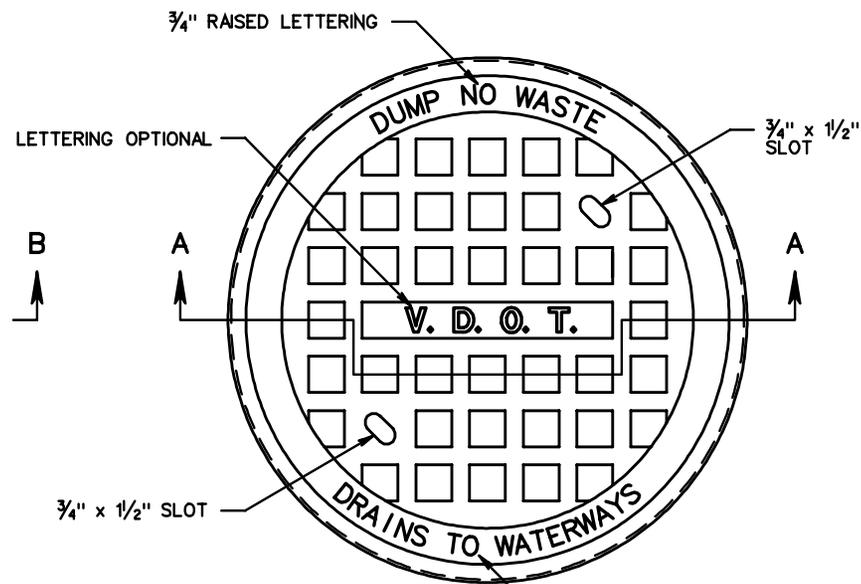
Addendum page must be signed and returned with your bid/proposal to acknowledge receipt of this addendum.

Authorized Signature

By: Shane B. Smith
Procurement Manager

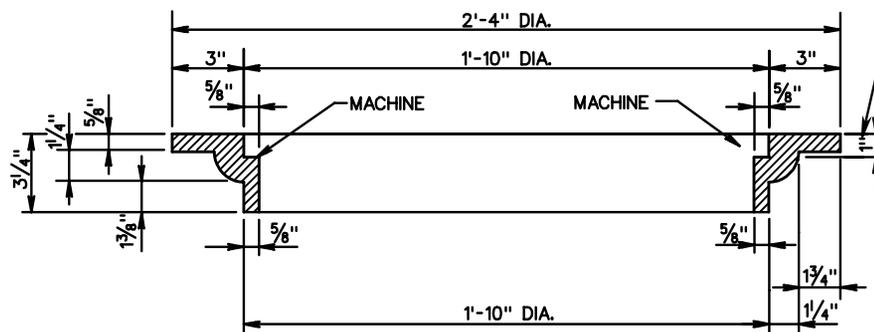


FRAME

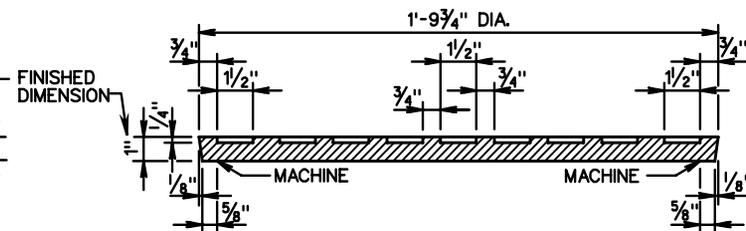


COVER

APPROXIMATE WEIGHT
CAST IRON
FRAME 86 ± 4 LBS.
COVER 83 ± 4 LBS.



SECTION B-B



SECTION A-A

NOTES

1. THE LETTERS V.D.O.T. ARE OPTIONAL, IF USED THE LETTERS ARE TO BE CAST IN THE DEPRESSION IN TOP OF THE COVER 1" WIDE AND RAISED 1/4" HIGH AS SHOWN.
2. THE DUMP NO WASTE DRAINS TO WATERWAYS LETTERING IS REQUIRED ON ALL IC-2 COVERS. LOCATION OF LETTERING MAY VARY BY MANUFACTURER.

SPECIFICATION
REFERENCE

224

STANDARD INLET AND FRAME COVER

VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 1 OF 3

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105.01

Special Provision	Description	Quantity	Units	Unit Cost	Item Cost
1	Mobilization	1	LS		
2	Construction Stakeout	1	LS		
4	Silt Fence	1,254	LF		
4	Safety Fence/Tree Protection Fence	3,953	LF		
4	Construction Entrance	5	EA		
4	Temporary Stream Crossing	3	EA		
6	Temporary Access Path	364	CY		
5	Streamflow Maintenance	1	LS		
8	Clearing and Grubbing	1	AC		
4	Tree Protection	23	EA		
18	Riffle	19	EA		
19	Cascade	11	EA		
15	Brush Toe	153	LF		
20	Boulder J-hook	3	EA		
17	Log Cross Vane	1	EA		
16	Boulder Cross Vane	6	EA		
21	Imbricated Wall	253	LF		
22	Boulder Toe with Soil Lift	400	LF		
10	Natural Fiber Matting	5466	SY		
9	Furnished Fill Material	250	CY		
9	Excavated Material (Haul Off)	1893	CY		
23	Culvert Removal and Stormwater Infrastructure Installation	215	LF		
24	Joint Utility Duct Bank	120	LF		
25	Topsoil	530	CY		
26	Compost	530	CY		
27	Trees & Shrubs (3 gal container)	1727	EA		
27	Grass Plugs (1 qt container)	6391	EA		
28	Live Stakes	1467	EA		
29	Permanent Seeding	1.38	AC		
29	Temporary Seeding	1.38	AC		
30	Invasive Species Management	1	LS		
33	Asbuilt Survey	1	LS		
				Total Cost	